

THE OHM TOWN NEWS

Voice of the Bridgerland Amateur Radio Club

>>>>> http://www.barconline.org

February 2012

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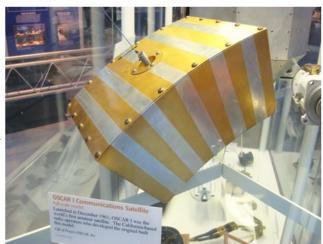
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PRESIDENT'S MESSAGE

On the cover of the February issue of QST it states "50 years of Amateur Radio in Space". On December 12, 1961, an Amateur Radio Satellite named OSCAR I (Orbiting Satellite Carrying Amateur Radio) was launched into space. That satellite was built in basements and garages of the Project OSCAR team. The total out of pocket expenses (not including donated material) of OSCAR 1 was \$68, including a \$1.15 spring from Sears that was used to eject the satellite from the rocket.



Wow, 1961. What else was happening back then? It was the middle of the Cold War. John F. Kennedy is inaugurated as the 35th president of the United States. The Beatles perform for the first time at the Cavern Club in Liverpool. Construction of the Berlin Wall begins. Roger Maris of the New York Yankees hits his 61st home run in the last game of the season, beating the 34 year old record held by Babe Ruth. And I was in Mr. Poulsen's 5th grade class at Summit Elementary in Smithfield (I needed to add that important historical fact).

The Soviet Union had launched <u>Sputnik 1</u>, the first man-made object to orbit the earth four year earlier. This was the start of the Space Age, <u>Ham the Chimp</u>, astronauts, and the race to the moon.

OSCAR I lasted only 22 days in orbit before its batteries gave out. Transmitting "HI HI" in Morse code on 145 MHz, OSCAR I ran on only 140 mW on battery power. The word "HI" was chosen over any particular call sign, since it was -- and still is, internationally recognized as a friendly greeting among radio amateurs.

50 years later, a lot has taken place. There have been over 100 amateur satellites put into orbit and more than 70 OSCARs launched by 23 countries. Currently there are over 20 fully operational satellites in orbit acting as repeaters, linear transponders or store and forward digital relays. And the International Space Station has an

Amateur Radio station on board for recreation and educational activities.

On another area, there have been several solar events that have sent particle clouds toward the Earth. The Solar and Heliospheric Observatory (SOHO) has some cool pictures of the <u>recent events</u> and a link to a video of the aurora in Sweden from the CME impact.

73, Cordell KE7IK



UPCOMING ACTIVITIES

BARC Club Meeting - 11 February, 10:00 AM Don Butler N5LZ will be talking about DXing and related fun stuff

Aurora Repeater Association Swapfest (Henderson, CO) - 12 February For more info see www.n0ara.org/meetings.html#swapfest

RACES VHF Net - 17 February, 8:00 PM

BARC Club Meeting - 10 March, 10:00 AM Solar Panel Systems

RACES HF Net - 17 March, 8:00 AM 3920 KHz

Longmont ARC LARCFest (Longmont, CO) - 7 April

BARC Club Meeting - 14 April, 10:00 AM

RACES VHF Net - 19 April, 8:00 PM

BARC Club Meetings are normally on the 2nd Saturday of the month at 10:00 A.M. on the 3rd floor of the Cache County Sheriffs Complex on 200 North and 1225 West, Logan, Utah.

ARES Meetings are usually held on the Third Wednesday of each month at 7 P.M. at the Cache County Sheriffs Complex.

Contact Tyler Griffiths for more information.

Bridgerland Amateur Radio Club (BARC) membership dues for 2012 are now being solicited. Club membership is open to anyone who is interested in Amateur Radio. You do not need to have an amateur license to join us. The purpose of BARC is to advance the general interest and welfare of amateur radio, to promote radio knowledge, cooperation and exchange of information between members, and to provide public service support for community activities in our area. Hams from around Cache Valley attend the monthly club meetings to learn about the different aspects of amateur radio, discuss radio topics, and to enjoy the fellowship of one another. This club is for you! So help make it as good as it can be!

The BARC membership application is on our club web site,

http://www.barconline.org/join-barc or on page 12 in this newsletter. You can use the application form and send your payment in, or join online and pay via PayPal.

Thank your for your support. Cordell KE7IK

HAM PROFILE

Garth Timmins KF7ATL

I remember hearing about ham radio at a fairly young age and thinking "that sounds like something I would like". Then, at about age 15, my parents took me to visit my older cousin Doug Hendricks, W7LRV (SK). He took me downstairs to see his shack. I can't remember what any of the equipment was, but the walls were covered (not just a figure of speech--they were literally covered) with QSL cards. In a prominent spot was a card from JY1 (King Hussein of Jordan). I learned later that this was a highly sought-after prize, and was probably the jewel of his collection. He also had one from Pitcairn's Island (remember 'Mutiny On The Bounty'?). That visit impressed me and has stuck with me to this day.

When I was in my twenties, I actually passed the Novice exam. However, I was a student with a young family, and time and finances kept me from pursuing the hobby at that time. In 2009 my kids were grown and married and I found that I had time and resources to get involved with radio. I passed the Technician exam in March, and upgraded to General in April.

So far, my activities have included 2 meter FM, and SSB, PSK31, and CW on HF. After trying CW on a whim, I discovered that I enjoy it very much and it has become my preferred operating mode. This is due to 2 main reasons: It's FUN, and it is a very efficient mode, letting me compete on a more even footing even with a wire antenna. I have recently become interested in QRP operation, and built my first QRP rig from a kit. Some of my favorite activities include rag chewing, and working DX.



I have earned the basic

Worked All States Award from the ARRL, and currently have 19 DX countries confirmed. I am a member of the Straight Key Century Club, which promotes the use of hand-sent Morse code, and have earned the Centurion Award, the Tribune Award, and the SKCC Worked All States Award.

My short term goals include increasing my code speed to at least 20 wpm, and passing the Extra Class exam. Some other goals include earning a Worked All States QRP endorsement, and earning DXCC.

I have been married for 33 years. My wife and I have 3 children. One is an accountant, one is an engineer, and the other was just accepted into medical school. Other activities that I enjoy are riding ATVs and skiing.

Garth

Proposed 2012 BARC Budget For vote by club members

General	\$250
Refreshments	\$350
Field Day	\$400
Swap Meet	\$50
Christmas Party	\$150
Promontory site	\$600
Pay Pal Fees	\$50
Club Shack HF Radio	\$2000
Total Budget	\$3850
Projected Income	
Dues	\$1850
Equipment fund donations	\$2000

The vote at the February Club meeting is to approve the proposed budget for the club. By approving we ask the club members to give discretion to the Board to adjust and make repeater and other equipment purchases during the year as funds allow, and as necessary to keep repeaters and other club equipment operational.

 YES - Approve the 2012 budget
NO – I do not approve the 2012 budge

Logbook of The World to Now Support CQ Awards

TAGS: arrl, ARRL Chief, award, chief executive officer, chief operating officer, david sumner, harold kramer, qsl cards, radio amateurs 01/24/2012

The ARRL and CQ Communications, Inc have signed an agreement to begin providing support for CQ-sponsored operating awards by the ARRL's Logbook of the World (<u>LoTW</u>) electronic confirmation system. The agreement was announced jointly today by ARRL Chief Operating Officer Harold Kramer, WJ1B, and CQ Communications President Richard Ross, K2MGA.

CQ's awards will be the first non-ARRL awards supported by LoTW and will be phased in beginning with the CQ WPX award, with additional CQ awards to follow. The ARRL's LoTW system -- an interactive database recording contacts between radio amateurs -- was created in 2003 and has been adopted by 47,500 radio amateurs worldwide. It already has records of 400 million contacts and is growing weekly. The target date for beginning LoTW support for WPX is April 1, 2012. Amateurs will be able to use LoTW logs to generate lists of confirmed contacts to be submitted for WPX credit. Standard LoTW credit fees and CQ award fees will apply.

ARRL Chief Executive Officer David Sumner, K1ZZ, observed that this step gives radio amateurs throughout the world an inexpensive and convenient means of gaining credits toward CQ's popular operating awards: "LoTW has significantly increased interest and participation in the ARRL's DXCC, Worked All States and VUCC awards programs. We anticipate a similarly positive response to the addition of the CQ WPX award. Amateurs will be able to spend more time operating and less time chasing QSL cards."

CQ President Richard Ross, K2MGA, said he is very pleased to be able to move forward with LoTW support for CQ awards. "We have had excellent results with electronic confirmations for several years," he explained. "I am glad that we are now able to begin expanding that convenience to those participants in our award programs who use Logbook of The World. We look forward to a smooth launch for WPX and to the expansion of LoTW support to include the rest of our award programs, as well."

Yaesu is the Principal Sponsor of the LoTW website.

This article came from the ARRL with thanks to Gary Roberts AG1T for bringing it to our attention.

Items for Sale or Trade, Items Wanted, Items Available

Item: Qty. 1 40' length of 4" aluminum irrigation pipe. Good for an antenna mast. Probably needs to be guyed. First come first served. You need to figure out how to transport the thing, especially along main street.

Boyd Humpherys W7MOY 752 4868

The ARRL Letter for January 12, 2012 FCC News: FCC Grants Special Temporary Authority for Amateur Spread Spectrum Experiments

Phil Williams, KA1GMN, has been granted a Special Temporary Authority (STA) by the Federal Communications Commission to conduct Spread Spectrum experiments within 2.5 kHz signal bandwidths on 160 through 2 meters, at a maximum of 100 W effective radiated power. The six month authorization takes effect February 1 and expires on July 31. The FCC has assigned Williams the call sign WF9XJD for use during his experimental transmissions. Read more <a href="https://example.com/here/beat-state-s

FCC News: Radio Amateurs Not Affected by Narrowbanding Requirements

The FCC released a <u>Public Notice</u> on January 6, reminding land mobile licensees, frequency coordinators and equipment manufacturers that they have less than one year to transition to narrowband operations in the 150-174 and 421-512 MHz bands. While the latter frequency range includes amateur service allocations, radio amateurs are not affected by the narrowbanding requirement. Land mobile operation is permitted in parts of the 421-430 MHz band in the areas around Detroit, Cleveland and Buffalo, and land mobile licensees in these areas are among those who will have to migrate to narrowband (12.5 kHz or narrower) technology by January 1, 2013. Amateur operation is not permitted along the Canadian border (north of Line A as defined in the FCC Rules) in the band 420-430 MHz.



The ARRL Letter for January 19, 2012 Army MARS Resumes Use of Winlink 2000

According to Government Liaison for Army MARS Pudge Forrester, AAA9GL, Lieutenant General Susan Lawrence has reversed the decision to phase out the use of the Winlink 2000 global radio e-mail system by Army MARS members. General Lawrence stated that the Army -- after reviewing its capabilities -- had decided that the continued use of Winlink 2000 was a valuable asset to Army MARS members and to the agencies that were using the service. She issued a statement to that effect on December 21, 2011. On January 5, 2012, the Chief of Army MARS officially notified his membership that the phase out notice had been rescinded. Army MARS members and agencies who had been using the service hailed the decision by General Lawrence and resumed use of Winlink 2000.



The ARRL Letter for January 26, 2012 International News: Federación Mexicana de Radio Experimentadores Marks 80 Years

The Federación Mexicana de Radio Experimentadores (FMRE) -- Mexico's IARU Member-Society -- celebrated its 80th anniversary on January 14. FMRE board members, director and hams from throughout Mexico attended the celebration at FMRE Headquarters in Mexico City.

The FMRE records show that the first time that Amateur Radio activities happened in Mexico occurred

in 1918, when students at the National Preparatory School constructed radio equipment. Three years later, the Telegraph Department granted permission to install the first radio stations in the country, and three men -- Francisco Castro Herrera, Carlos Gonzalez and Carlos Palomino -- obtained permission to use a wavelength less than 200 meters. At this time, Mexican wireless operators felt the need for an Amateur Radio organization.



In 1922, the Colegio Francés la Liga Nacional de Radio was founded; in 1923, this group created its charter and changed its name to Liga Mexicana de Radio. The Club Central Mexicano de Radio (LCMR) was also founded in 1922. Shortly thereafter, they merged and formed the Liga Central Mexicana de Radio and began holding national meetings and publishing a magazine.

In November 1925, the Unión de Radioexperimentadores Mexicanos (UREM) was created, but fell apart four years later. Members from this club applied for IARU membership and organized the Conferencia Nacional de Radioaficionados, the forerunner of the Liga Mexicana de Radioexperimentadores. On January 10, 1932, these radio amateurs founded the Liga Mexicana de Radioexperimentadores. On December 8, 1988, the Liga changed its name to the Federación Mexicana de Radio Experimentadores. For more on the history of the FMRE (in Spanish), please click here.

On the Air: RSGB Announces Special Prefixes to Celebrate Diamond Jubilee, Summer Olympics and Paralympic Games

The Radio Society of Great Britain (<u>RSGB</u>) and Ofcom -- the British equivalent to the FCC -- have authorized radio amateurs to use <u>special prefixes</u> during 2012 in celebration of Queen Elizabeth II's Diamond Jubilee and the 2012 Summer Olympics and Paralympic Games.

To celebrate the Queen's Diamond Jubilee, all UK radio amateur and club stations can apply to use a special prefix for a five week period, from May 5-June 10. This will add or substitute the letter "Q" in the place of the regional identifier in the call sign. During the Summer Olympics and the Paralympic Games, radio amateurs and club stations can apply to use the letter "O" in the same fashion for a seven week period, from July 21-September 9.



Amateurs in the United Kingdom who choose to apply for these special call signs will be using GQ, MQ and 2Q prefixes to celebrate the Diamond Jubilee, and GO, MO and 2O prefixes to celebrate the Olympic and Paralympic Games. In addition, calls in the series GB2012aaa will be available for Special Event Stations relating to the Olympics. Licenses will also be issued for four "flagship" stations using the prefix 2O12a (that's the letter "O," not a zero; "a" is a single letter relating to the location of the station).

The ARRL Letter for February 2, 2012 FCC News: FCC Sets Date for Medical Devices on 70 cm



In November 2011, FCC Commissioners unanimously agreed to allocate spectrum and adopt service and technical rules for the utilization of new implanted medical devices that operate on 413-457 MHz (70 cm). These devices will be used on a secondary basis as part of the Medical Device Radiocommunication (MedRadio) Service in Part 95 of the FCC rules. In the Federal Register for Friday, January 27, the FCC announced that the effective date for these new rules is Monday, February 27. The new rules expand the existing MedRadio Service rules to permit the use of new wideband medical implant devices that employ neuromuscular microstimulation techniques to restore sensation, mobility, and other functions to paralyzed limbs and organs. These medical devices hold enormous promise to advance the state of medical care, lower

health costs, and improve the quality of life for countless Americans. The rules will allow these new types of MedRadio devices to access 24 megahertz of spectrum in the 413-419, 426-432, 438-444, and 451-457 MHz bands on a secondary basis.

ARRL HQ: Save the Date! Take a Virtual Tour of W1AW on February 12

Join W1AW Station Manager Joe Carcia, NJ1Q, on a virtual tour of W1AW, the Hiram Percy Maxim Memorial Station, the Amateur Radio station at ARRL Headquarters in Newington, Connecticut, Carcia will lead this tour via a live webcast on Sunday, February 12 at 5 PM EST (2200 UTC). Anyone with an Internet connection will be able to watch the tour here.

"We want viewers of this live Internet tour to feel as if they are actually at W1AW," Carcia explained. "If you came to W1AW in person, you would see the same things that we are going to show on the virtual tour: The three operating stations, the W1AW workshop, the transmitter racks that we use to send out our bulletins and use for the code practice transmission, the control console and Old Betsy, Hiram Percy Maxim's personal spark gap transmitter."

Al Petrunti, KA1TCH, of the New Day Group, will follow Carcia as he leads viewers through the station. ARRL Staff members, including Media and Public Relations Manager Allen Pitts, W1AGP, and Chief Operating Officer Harold Station at ARRL Headquarters in Newington, Kramer, WJ1B, as well as local television weatherman Geoff Fox, K1GF, will also be on hand at W1AW during the tour.



W1AW Station Manager Joe Carcia, NJ1Q, inside W1AW, the Hiram Percy Maxim Memorial Connecticut. [S. Khrystyne Keane, K1SFA,

"Hams around the world know of W1AW, and thousands have made contacts with this impressive station -- but most hams never get to see it," Pitts said. "Thanks to Al Petrunti's group, we hope that folks enjoy seeing what's at the other end of the signals. As in all live broadcasts, you never know just what might happen. We invite you to join us." Pitts is producing the live web tour.

This is the second video that the New Day Group has made for the ARRL. In 2011, they created the HR 607 video that educated radio amateurs of a bill in Congress that addressed certain spectrum management issues, including the creation and maintenance of a nationwide Public Safety broadband network using current Amateur Radio spectrum.

ARRL in Action: What Have We Been Up to Lately?

This feature is a concise monthly update of some of the things that the ARRL is doing on behalf of its members. This installment -- which covers the month of January -- takes a look the 2012 World Radiocommunication Conference, the ARRL Board of Directors' 2012 Annual Meeting, new ARRL books, new antennas at the W1AW antenna farm, FCC decisions affecting Amateur Radio, reports from the Official Observer Desk and more. Read more here.



On the Air: 4U1ITU now 4U1WRC During WRC-12

<u>4U1ITU</u> -- the Amateur Radio station at the ITU -- will be signing as 4U1WRC during the 2012 World Radiocommunication Conference (WRC-12), through February 17. The station will revert to 4U1ITU just in time for the <u>ARRL International DX CW Contest</u>, scheduled for February 18-19. According to ARRL Chief Executive Officer David Sumner, K1ZZ, who is attending WRC-12 as the IARU International Secretariat, the station is in really good shape, with two operating positions capable of going on any two bands at the same time. "A number of delegates are active amateurs, so the station should be quite active for the next several weeks," he said. Amateurs who work 4U1WRC between January 23-February 17, 2012 can receive a special QSL card via the HB9 Bureau or by QSLing direct to IARC, PO Box 6, CH-1211 Geneva 20, Switzerland.



Hams who work 4U1WRC during WRC-12 will receive a special QSL card. This is the 4U1WRC QSL card from WRC-07.

QST de W1AW
ARRL Bulletin 2 ARLB002
From ARRL Headquarters
Newington CT February 3, 2012
To all radio amateurs

SB QST ARL ARLB002 ARLB002 New Rules for 5 MHz (60 Meters) To Go Into Effect March 5

On November 18, the FCC released a Report and Order (R&O), defining new rules for the 60 meter (5 MHz) band. These rules are in response to a Petition for Rulemaking (PRM) filed by the ARRL more than five years ago and a June 2010 Notice of Proposed Rulemaking (NPRM). In the February 3 edition of the Federal Register, the FCC announced that these new rules will go into effect on March 5, 2012.

Details can be found at,

https://www.federalregister.gov/articles/2012/02/03/2012-2477/amateur-radio-use-of
-the-allocation-at-5-mhz

In summarizing the new rules, the FCC explained that the new rules amend the current rules to facilitate more efficient and effective use by the Amateur Radio Service of five channels in the 5330.5-5406.4 kHz band (the 60 meter band): "Specifically, and consistent with our proposals in the Notice of Proposed Rulemaking in this proceeding, the Commission replaces one of the channels with a less encumbered one, increases the maximum authorized power amateur stations may transmit in this band and authorizes amateur stations to transmit three additional emission designators. The Commission also adopts an additional operational rule that prohibits the use of automatically controlled digital stations and makes editorial revisions to the relevant portions of the Table of Frequency Allocations and our service rules."

The Amateur Radio Service in the United States has a secondary allocation on 60 meters. Only those amateurs who hold General, Advanced or Amateur Extra class licenses may operate on this band.

Amateur stations must not cause harmful interference to -- and must accept interference from -- stations authorized by any administration in the fixed service, as well as mobile (except aeronautical mobile) stations authorized by the administrations of other countries.

NNNN

/EX

Membership in **The Bridgerland Amateur Radio Club, Inc. (BARC)** is open to anyone interested in Amateur Radio. You do not need an amateur license to join. Learn more online at http://www.barconline.org/ or by emailing membership@barconline.org.

The Bridgerland Amateur Radio Club provides the following to its members:

- A repeater system that covers northern Utah from Bear Lake to Salt Lake Valley.
- Events where you can practice your radio skills in a fun learning environment.
- Club meetings are held the second Saturday each month from October to May. An opportunity to meet and learn from other amateur operators.
- Social activities where members can make friends and interact with other members.



Your <u>tax deductible</u> membership supports club activities and the BARC repeater system.

The Bridgerland Amateur Radio Club, Inc. Membership application for the year 2012

Dues are in effect January 1, 2012 through December 31, 2012

New Members Only, individual membership dues prorated quarterly Please indicate if you or family member is an American Radio Relay League (ARRL) member _____ Call Sign _____ Date Paid _____ Name □ ARRL member P.O. Box _____ Street Address _____ State ____ Zip Code ____ City __ Home Phone () _____ Work Phone () ____ (The club's newsletter, THE OHM TOWN NEWS, is sent to the E-mail Address) □ Individual Membership - \$25 □ Addition Family members in same household - \$3 ea □ Donation for Repeater upgrades / equipment purchases Total \$ Names and Call Signs of additional family members Name _____ Call Sign _____ □ ARRL member E-mail □ ARRL member E-mail _____ Name _____ Call Sign _____ Bridgerland Amateur Radio Club is an ARRL affiliated club □ ARRL member E-mail is an ARRL affiliated club Mail your completed form and a check to: B.A.R.C., P.O. Box 111, Providence UT 84332-0111 or pay online at http://www.barconline.org/?q=node/242 B.A.R.C. is a non-profit organization

Questions for Technician Class License

- 1. {T1A07) What is the FCC Part 97 definition of telemetry?
- A. An information bulletin issued by the FCC
- B. A one-way transmission to initiate, modify or terminate functions of a device at a distance C. A one-way transmission of measurements
- at a distance from the measuring instrument D. An information bulletin from a VEC
- 2. (T1B03) Which frequency is within the 6 meter band?
- A. 49.00 MHz
- B. 52.525 MHz
- C. 28.50 MHz
- D. 222.15 MHz
- 3. (T1C02) Which of the following is a valid US amateur radio station call sign?
- A. KMA3505
- B. W3ABC
- C. KDKA
- D. 11Q1176
- 4. (T1D05) When may amateur radio operators use their stations to notify other amateurs of the availability of equipment for sale or trade?
- A. When the equipment is normally used in an amateur station and such activity is not conducted on a regular basis
- B. When the asking price is \$100.00 or less
- C. When the asking price is less than its appraised value
- D. When the equipment is not the personal property of either the station licensee or the control operator or their close relatives
- 5. (T1E07) When the control operator is not the station licensee, who is responsible for the proper operation of the station?
- A. All licensed amateurs who are present at the operation
- B. Only the station licensee
- C. Only the control operator
- D. The control operator and the station licensee are equally responsible
- 6. (T1F10) Who is accountable should a repeater inadvertently retransmit

- communications that violate the FCC rules?
- A. The control operator of the originating station
- B. The control operator of the repeater
- C. The owner of the repeater
- D. Both the originating station and the repeater owner
- 7. (T2A05) What should you transmit when responding to a call of CQ?
- A. CQ followed by the other station's call sign
- B. Your call sign followed by the other station's call sign
- C. The other station's call sign followed by your call sign
- D. A signal report followed by your call sign
- 8. (T2B04) Which of the following common problems might cause you to be able to hear but not access a repeater even when transmitting with the proper offset?
- A. The repeater receiver requires audio tone burst for access
- B. The repeater receiver requires a CTCSS tone for access
- C. The repeater receiver may require a DCS tone sequence for access
- D. All of these choices are correct
- 9. (T2C08) What is usually considered to be the most important job of an amateur operator when handling emergency traffic messages?
- A. Passing messages exactly as written, spoken or as received
- B. Estimating the number of people affected by the disaster
- C. Communicating messages to the news media for broadcast outside the disaster area
- D. Broadcasting emergency information to the general public
- 10.(T3A03) What antenna polarization is normally used for long-distance weak-signal CW and SSB contacts using the VHF and UHF bands?
- A. Right-hand circular
- B. Left-hand circular
- C. Horizontal
- D. Vertical

(For answers to test questions see page 14)

